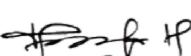


**AIRCRAFT WEIGHT AND C.G DETERMINATION**

REPORT NO : 01/WB/SNJ/IX/2021  
 DATE : 09 SEPTEMBER 2021

AIRCRAFT REGISTRATION : PK-SNJ  
 AIRCRAFT TYPE : C208B EX  
 AIRCRAFT SERIAL NUMBER : 208B-5640  
 PROPERTY OF : PT. SMART CAKRWALA AVIATION  
 PLACE OF WEIGHING : PONDOK CABE  
 REASON OF WEIGHING : RECALCULATION APE STOL MODIFICATION  
 CONFIGURATION : **PAX**  
 PERFORMED BY : YANUAR ABDUL FATAH  
 SIGNED:  DATE: 09/09/2021

CHECKED BY : ANDREAS HERYANSYAH.  
 SIGNED:  DATE: 09/09/2021

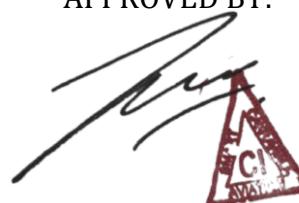
**RESULTS**

<b>EMPTY WEIGHT</b>	<b>: 5366.13</b>
<b>EMPTY C.G FROM DATTUM LINE</b>	<b>: 191.88</b>
<b>INDEX MAC %</b>	<b>: 21.55</b>
<b>VALID UNTIL</b>	<b>: SEPTEMBER 2026</b>

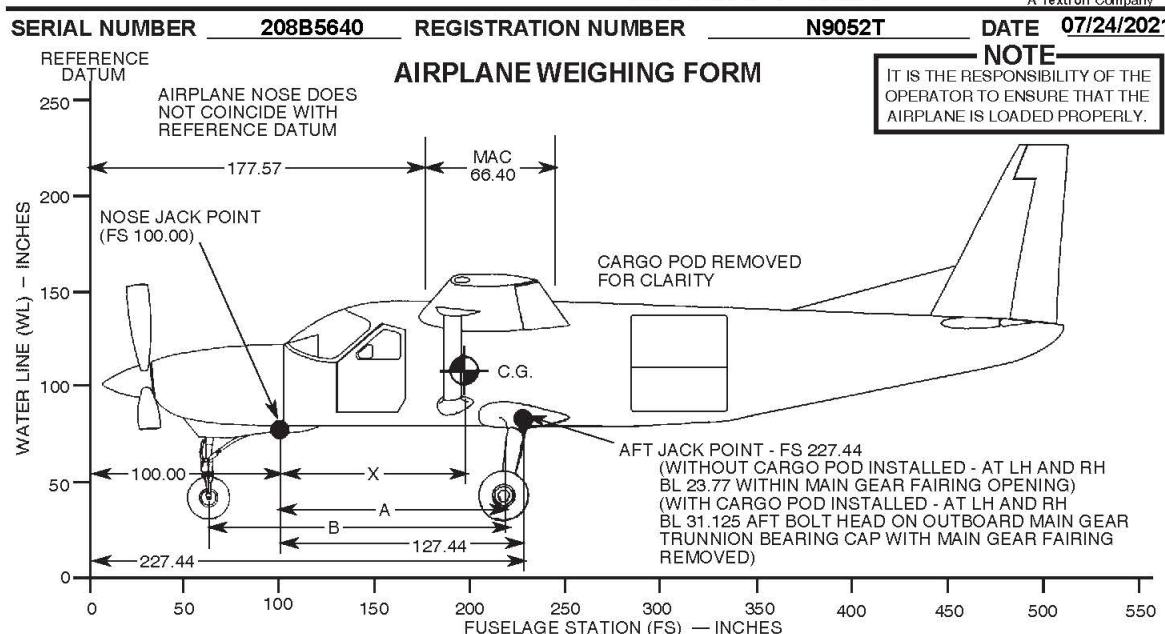
**WEIGHING EQUIPMENT**

PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:



YANUAR ABDUL FATAH  
 CHIEF INSPECTOR

**MODEL 208B  
CARAVAN I**
**WEIGHT AND  
BALANCE DATA**

**LOCATING CG WITH AIRPLANE ON LANDING GEAR**

FORMULA for Longitudinal CG

$$(X) = (A) - \frac{(\text{Nose Gear Net Weight})(896) X (B) 157.75}{116.75 \text{ Nose and Main Landing Gear Weight Totaled (5216)}} = (89.65) \text{ Inches}$$

CG Arm of Airplane = 100 + (X) = (189.65) Inches Aft of Datum

**MEASURING A AND B**

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

**LOCATING CG WITH AIRPLANE ON JACK PADS**

FORMULA for Longitudinal CG

$$\text{CG Arm of Airplane} = 227.44 - \frac{127.44 X (\text{Nose Jack Point Net Weight})}{\text{Nose and Aft Jack Point Weight Totaled}} = ( )$$

**LEVELING PROVISIONS**

 LONGITUDINAL - LEFT SIDE OF FUSELAGE AT FS 239.00 & 272.00  
LATERAL - SEAT RAILS AFT OF PILOT AND FRONT PASSENGER SEATS

**AIRPLANE AS WEIGHED TABLE**
**LOCATING PERCENT MAC**

FORMULA for Percent MAC

$$\text{CG Percent MAC} = \frac{(\text{CG Arm of Airplane}) - 177.57}{0.6640}$$

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2166.00	0	0	2166.00
RIGHT SIDE	2154.00	0	0	2154.00
NOSE	896.00	0	0	896.00
AIRPLANE TOTAL AS WEIGHED				5216.00

**BASIC EMPTY WEIGHT AND CENTER-OF-GRAVITY TABLE**

ITEM	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
AIRPLANE (CALCULATED OR AS WEIGHED) (INCLUDES ALL UNDRAINABLE FLUIDS AND FULL OIL)	5216.00	189.65	989.21
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0001 Thru 208B0089 Not Modified With SK208-52 S/N 208B0091 Thru 208B0099 Modified With SK208-52 And S/N 208B0090 And On	<b>20.1</b>	<b>-205.7</b>	<b>4.97</b>
See attached sheet for overages and shortages	48.83	302.18	14.76
<b>BASIC EMPTY WEIGHT</b>	<b>5288.93</b>	<b>190.77</b>	<b>1008.94</b>

CESSNA AIRCRAFT COMPANY, AIRCRAFT DIVISION, P.O. BOX 7704, WICHITA, KANSAS 67277

 FORM NUMBER 1692-2, 15 July 1986  
REVISED 22 January 2002



## AIRCRAFT WEIGHT & BALANCE

**TABEL1**

<b>BASIC ITEM NOT INCLUDED WHEN WEIGHING</b>	<b>WEIGHT (POUNDS)</b>	<b>CG ARM (INCHES)</b>	<b>MOMENT/1000 INCH POUNDS</b>
APE STOL KIT STC #: SAO1805SE	5.80	203.00	1.17
BENCH ASSY	46.30	267.69	12.39
SINGLE SEAT ASSY	25.10	285.55	7.16
<b>TOTAL</b>	<b>77.2</b>	<b>268.63</b>	<b>20.73</b>

**TABEL 2**

<b>DESCRIPTION OF ACTION PERFORMED</b>	<b>WEIGHT (POUNDS)</b>	<b>CG ARM (INCHES)</b>	<b>MOMENT/1000 INCH POUNDS</b>
<b>TOTAL</b>			

**TABEL 3**

<b>AIRCRAFT WEIGHING REPORT</b>	<b>WEIGHT (POUNDS)</b>	<b>CG ARM (INCHES)</b>	<b>MOMENT/1000 INCH POUNDS</b>
<b>AIRPLANE (CALCULATED OR AS WEIGHED) (INCLUDES ALL UNDRAINABLE FLUIDS AND FULL OIL) INCLUDED DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALON</b>	<b>5288.93</b>	<b>190.77</b>	<b>1008.94</b>
<b>WEIGHT FROM TABLE 1 (+)</b>	<b>77.2</b>	<b>268.63</b>	<b>20.73</b>
<b>TOTAL</b>	<b>5366.13</b>	<b>191.88</b>	<b>1029.67</b>

### **BASIC EMPTY WEIGHT AND CENTER OF GRAVITY TABLE**

#### **LOCATING PERCENT MAC**

$$\begin{aligned}\text{CG Percent MAC} &= \frac{(\text{CG Arm of Airplane}) - 177.57}{0.6640} \\ &= \frac{191.88 - 177.57}{0.6640} \\ &= 21.55 \%\end{aligned}$$



## AIRCRAFT WEIGHT & BALANCE

<b>PRIOR TO WEIGHT AND BALANCE CHECK</b>				
<b>AIRCRAFT TYPE : CESSNA C208B EX CARAVAN</b>				
<b>AIRCRAFT REGISTRATION : PK-SNJ</b>				
<b>AIRCRAFT SERIAL NUMBER : 208B-5640</b>				
<b>DATE OF WEIGHING : 24 JULY 2021</b>				
NO.	DESCRIPTION	APPL	CHECK	REMARKS
<b>A</b>	<b>STANDARD ITEMS</b>			
1	All fuel tank EMPTY or recorded / FULL	√	Empty	-
2	All engine oil tanks EMPTY or recorded / FULL	√	Full	-
3	All others oil tanks FULL (included Propeller, Starters, Gearbox and Air Cycle)	√	Full	-
4	Hydraulic tanks FULL	√	Full	-
<b>B</b>	<b>STANDARD EQUIPMENTS</b>			
1	Technical supply or Flight Kits	x	N/A	-
2	Aircraft Books, Manuals and Papers	x	1 Bag	-
3	AXE	x	1 EA	-
4	Fire Extinguisher	√	1 EA	-
5	First Aid Kit	x	1 Box	-
6	Life Vests	x	11 EA	-
7	Life Raft	x	N/A	-
8	Survival Kit	x	N/A	-